

WHAT IS CLAIMED IS:

1. A laser oscillator comprising:

laser oscillation means for employing a discharge to excite a laser and to generate a laser beam;

a box for storing said laser oscillation means; and

an optical catalyst layer formed on the inner wall of said box.

2. A laser oscillator comprising:

laser oscillation means for employing a discharge to excite a laser gas and to generate a laser beam;

a box for storing said laser oscillation means; and

a plate member, provided inside said box, on which an optical catalyst layer is formed.

3. A laser oscillator according to claim 1 or 2, wherein said optical catalyst layer decomposes nitrogen oxide (NOX).

4. A laser oscillator comprising:

laser oscillation means for employing a discharge to excite a laser gas and to generate a laser beam;

a box for storing said laser oscillation means; and

a graphitized layer formed on the inner wall of said box.

5. A laser oscillator comprising:

laser oscillation means for employing a discharge to excite a laser gas and to generate a laser beam;

a box for storing said laser oscillation means; and
a plate member, provided inside said box, on which a
graphitized layer is formed.

6. A laser oscillator according to claim 4 or 5, wherein
said graphitized layer absorbs ultraviolet rays.

7. A laser oscillator comprising:

layer oscillation means for employing a discharge by a
pair of discharge electrodes that face each other across an
intervening discharge space to excite a laser gas and to generate
a laser beam;

reflection means for receiving ultraviolet rays generated
by said laser oscillation means, and for reflecting said
ultraviolet rays so that the reflected light passes through
said discharge space between said pair of discharge electrodes;
and

a box for storing said laser oscillation means and said
reflection means.

8. A laser oscillator according to claim 1, further
comprising:

a sensor provided in said box to detect said ultraviolet
rays.

9. A laser oscillator comprising:

laser oscillation means for employing a discharge to excite

a laser gas and to generate a laser beam;

cooling means for cooling said laser gas that is heated by said discharge;

a collector; and

a box for storing said laser oscillation means, said cooling means and said collector,

wherein said collector is located between said cooling means and said laser oscillation means along a path followed by said laser gas while circulating inside said box.

10. A laser oscillator according to claim 9, wherein activated carbon is used as said collector.

11. A laser oscillator according to claim 9, wherein aluminous silica gel is used as said collector.

12. A laser oscillator according to claim 10, wherein said activated carbon is stored in a container having a mesh smaller than the particle diameter.

13. A laser oscillator according to claim 11, wherein said aluminous silica gel is stored in a container having a mesh smaller than the particle diameter.